

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	((("5827319") or ("7449011")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/02 13:51
L2	5812	((606/191,198) or (604/.164.01,104,264)).OCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/02 13:55
L3	415	!2 and expand\$5 same thread\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/02 13:56
L4	228	!3 and dilat\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/02 13:56
L5	6500	((606/191,198) or (604/.104,164.01,264)).OCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/02 13:59
L7	8	"!6" and dilation and expansion. clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/02 13:59
S1	1969	(606/191,198).OCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 11:50
S2	52	S1 and (trocar same (expand expandable))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 12:30
S3	10	S2 and (braid braided)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 11:54
S4	257	("1213001"   "1248492"   "2548602"   "3509883"   "3545443"   "3742958"   "3788318"   "3789852"   "3902492"   "3952748"   "4018230"   "4141364"   "4411655"   "4447237"   "4479497"   "4581025"   "4589868"   "4601713"   "4610688"   "4650466"   "4710181"   "4716901"   "4738666"   "4739762"   "4753636"   "4762128"   "4772266"   "4798193"   "4846791"   "4865593"   "4869717"   "4888000"   "4896669"   "4899729"   "4921479"   "4941874"   "4954126"   "4955895"   "4972827"   "4986830"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 12:47

		"5021241"   "5045056"   "5078736"   "5084057"   "5100388"   "5100420"   "5104382"   "5112304"   "5116318"   "5139511"   "5158545"   "5183464"   "5188602"   "5201756"   "5222938"   "5222971"   "5234425"   "5246424"   "5250025"   "5275611"   "5279554"   "5290276"   "5304119"   "5312360"   "5316360"   "5320611"   "5383859"   "5403278"   "5407430"   "5431655"   "5431676"   "5433676"   "5433708"   "5437631"   "5437644"   "5453094"   "5454825"   "5460170"   "5484403"   "5487739"   "5540658"   "5542928"   "5573517"   "5601559"   "5662614"   "5674240"   "5713867"   "5746720"   "5800390"   "5800409"   "5814058"   "5824002"   "5827319"   "5836913"   "5873854"   "5882345"   "5944691"   "5957902"   "5961499"   "5971960"   "0590228"   "6030364"   "6063060"   "6077248"   "6080174"   "6083241"   "6095967"   "6146400"   "6162236"   "6210376"   "6235020"   "6245052"   "6283950"   "6293909"   "6306124"   "6325789"   "6325812"   "0668879").FN.				
S5	36	S2 and (thread threaded)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 12:30
S6	36	S5 and (expand expandable)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 12:30
S7	377	(trocar with (expandable expanding expand))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 12:48
S8	30	S7 and (thread thread) same trocar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 12:48
S9	68	S7 and (thread threaded) same trocar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 12:51

S10	41	(richard near gresham).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 12:52
S11	40	(thomas near wenchell).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 12:55
S12	11	(robert near desantis).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 12:58
S13	299	S1 and ((expand expanding expandable) with sheath)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 12:59
S14	121	S13 and (thread threaded)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 13:03
S15	59	S7 and (braid braided)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/09 13:03
S16	2	("20040172041").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/12 12:30
S17	5	((("6080174") or ("6162236")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/12/19 14:39
S18	45	("0668879"   "1213001"   "1248492"   "2548602"   "3545443"   "3742958"   "3789852"   "3902492"   "4018230"   "4141364"   "4411655"   "4479497"   "4581025"   "4589868"   "4601713"   "4716901"   "4738666"   "4739762"   "4772266"   "4798193"   "4846791"   "4865593"   "4869717"   "4888000"   "4896669"   "4899729"   "4921479"   "4955895"   "4972827"   "4986830"   "5112304"   "5116318"   "5122122"   "5139511"   "5183464"   "5201756"   "5222971"   "5234425"   "5250025"   "5460170").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/21 12:54
S19	14	S18 and (thread threaded)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/21 12:55
S20	18	((("6080174")).URPN.	USPAT	OR	OFF	2008/02/21 12:58
S21	11	S20 and (thread threaded)	USPAT	OR	OFF	2008/02/21 13:01

S22	42	("1527291" "4808168" "4869717" "5098388" "5114407" "5137509" "5139485" "5183464" "5256148" "5284474" "5290276" "5300084" "5312351" "5320608" "5383859" "5389077" "5421821" "5423760" "5423770" "5431676" "5437643" "5454790" "5562611" "5669883" "5695462" "5713874" "5746720" "5810776" "5814058" "5827319" "5857999" "6080174" "6156006" "6193692" "6245052" "6293952" "6325812" "6447527" "6494893" "6589225" "6656160").FN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/21 13:16
S23	67	("0668879" "1213001" "1248492" "2548602" "3509883" "3742958" "3789852" "3902492" "4018230" "4141364" "4411655" "4447237" "4479497" "4581025" "4589868" "4601713" "4610688" "4650466" "4716901" "4738666" "4739762" "4772266" "4789193" "4846791" "4865593" "4869717" "4888000" "4896669" "4899729" "4921479" "4954126" "4955895" "4972827" "4986830" "5078736" "5100388" "5112304" "5116318" "5122122" "5139511" "5158545" "5183464" "5188602" "5201756" "5222938" "5222971" "5234425" "5250025" "5250033" "5275611" "5312360" "5316360" "5320611" "5392766" "5407430" "5431676" "5433708" "5454790" "5460170" "5540658" "5542928" "6080174").FN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/21 13:22
S24	21	S23 and (thread threaded)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/21 13:23
S25	4895	dilat\$5 near (catheter sheath)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/21 13:25

S26	2247	"606"/\$.ccls. and (dilat\$5 near (catheter sheath))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/21 13:26
S27	157	S26 and trocar	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/21 13:26
S28	109	S27 and (thread threaded)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/21 13:26
S29	2378	"604"/\$.ccls. and (dilat\$5 near (catheter sheath))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/21 13:26
S30	143	S29 and trocar	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/21 13:27
S31	116	S30 and (thread threaded)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/21 13:27
S32	11	("3789852"   "4000739"   "5127627"   "5201756"   "5221264"   "5256150"   "5312360"   "5318588"   "5330437"   "5397335"   "5411483").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/21 13:37
S33	6	("5827227").URPN.	USPAT	OR	OFF	2008/02/21 13:40
S34	2167	(606/191,198).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/08/19 14:36
S35	751	S34 and access	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/08/19 14:36
S36	134	S35 and dilation and expansion	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/08/19 14:37
S37	2853	(trocar cannula) and obturator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/19 12:02
S38	287	S37 and (trocar cannula) with (threaded helix helical)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/19 12:03
S39	2	("5911714").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/19 12:11
S40	2	("6767355").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/19 12:41
S41	0	(5/911714).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/09/28 10:45
S42	2	("5911714").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/09/28 10:45
S43	8	(dry adj wall) with (screw fastener) with expand\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/20 14:42

S44	2053	trocar and obturator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/20 14:43
S45	192	S44 and trocar with expand\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/20 14:44
S46	1	hreaded near (expander obturator) with (sheath trocar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/20 15:00
S47	22	hreaded near6 (expander obturator) with (sheath trocar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/20 15:00
S48	955	hreaded near6 (expander obturator)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/20 15:04
S49	38	S48 and expand\$5 with sheath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/20 15:04
S50	2	("5836913").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/20 15:10
S51	13	("3915171"   "4496345"   "4617933"   "5002557"   "5041093"   "5176697"   "5188602"   "5209754"   "5267970"   "5344439"   "5421832"   "5454790"   "5540658").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/20 15:13
S52	2	("7449011").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/20 15:20
S53	123	("0668879"   "1213001"   "1248492"   "2548602"   "3509883"   "3545443"   "3742958"   "3788318"   "3789852"   "3902492"   "4018230"   "4141364"   "4411655"   "4447237"   "4479497"   "4581025"   "4589868"   "4601713"   "4610688"   "4650466"   "4710181"   "4716901"   "4738666"   "4739762"   "4753636"   "4762128"   "4772266"   "4798193"   "4846791"   "4865593"   "4869717"   "4888000"   "4896669"   "4899729"   "4921479"   "4941874"   "4954126"   "4955895"   "4972827"   "4986830"   "5021241"   "5045056"   "5078736"   "5100388"   "5104382"   "5112304"   "5116318"   "5122122"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/20 15:32

		"5139511"   "5158545"   "5183464"   "5188602"   "5201756"   "5222938"   "5222971"   "5234425"   "5246424"   "5250025"   "5250033"   "5275611"   "5279554"   "5290276"   "5304119"   "5312360"   "5316360"   "5320611"   "5383859"   "5392766"   "5403278"   "5407430"   "5431655"   "5431676"   "5433708"   "5437631"   "5437644"   "5453094"   "5454790"   "5460170"   "5484403"   "5487739"   "5540658"   "5542928"   "5573517"   "5601559"   "5662614"   "5674240"   "5713867"   "5735867"   "5746720"   "5800390"   "5800409"   "5814058"   "5824002"   "5827319"   "5836913"   "5873854"   "5882345"   "5902282"   "5944691"   "5957902"   "5961499"   "5971960"   "6030364"   "6063060"   "6077248"   "6080174"   "6095967"   "6146400"   "6162236"   "6197014"   "6210376"   "6245052"   "6283950"   "6293909"   "6306124"   "6325789"   "6325812").FN.				
S54	63	threaded near6 (expander obturator) and (sheath cannula lumen) with expand\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/20 15:55
S55	22	((("5971958") or ("7449011") or ("3736934") or ("1059631") or ("6245052") or ("5320611") or ("7001333")).FN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/21 12:30
S56	26	("1059631").URFN.	USPAT	OR	OFF	2010/05/21 12:34
S57	0	("7449011").URFN.	USPAT	OR	OFF	2010/05/21 12:35
S58	1082	((604/164.01) or (128/856) or (600/202,208)).CQLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/21 12:36
S59	19	S58 and (obturator access) with (threads threaded)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/21 12:36
S60	3104	"411"/\$.ccls. and threaded with (opening aperture)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/21 12:47

S61	839	S60 and expand\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/21 12:47
S62	25	S61 and ((threads threaded) with external with (tube tubular))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/05/21 12:48

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	36	((606/191,198) or (604/104,164.01,264)).CCLS.	UPAD	OR	OFF	2010/11/02 13:59

**11/ 2/ 10 2:12:32 PM**

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introduction apparatus and method.wsp**